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MYERS BIGEL SIBLEY & SAJOVEC			SAEED, USMAAN	
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			2166	
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Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)			
Office Action Summary		10/784,605	LORA ET AL.			
		Examiner	Art Unit			
		Usmaan Saeed	2166			
	The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply					
A SHO WHIC - Exter after - If NO - Failur Any r	ORTENED STATUTORY PERIOD FOR REPLEHEVER IS LONGER, FROM THE MAILING DISTRICT IN THE MAILING DEPLY WITH THE MAILING DEPLY WITH DEP	ATE OF THIS COMMUNICATION 136(a). In no event, however, may a reply be tin will apply and will expire SIX (6) MONTHS from e, cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).			
Status						
2a) ☐ 3) ☐	Responsive to communication(s) filed on 23 F This action is FINAL. 2b) This Since this application is in condition for allowa closed in accordance with the practice under the	s action is non-final. ince except for formal matters, pro				
Dispositi	on of Claims					
5)□ 6)⊠ 7)□	Claim(s) <u>1-60</u> is/are pending in the application 4a) Of the above claim(s) is/are withdra Claim(s) is/are allowed. Claim(s) <u>1-60</u> is/are rejected. Claim(s) is/are objected to. Claim(s) are subject to restriction and/o	wn from consideration.				
Applicati	on Papers					
10)⊠	The specification is objected to by the Examine The drawing(s) filed on 23 February 2004 is/ar Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct The oath or declaration is objected to by the Example 1	re: a) \square accepted or b) \square objected drawing(s) be held in abeyance. Section is required if the drawing(s) is ob-	e 37 CFR 1.85(a). jected to. See 37 CFR 1.121(d).			
Priority u	ınder 35 U.S.C. § 119					
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 						
Attachmen		4) 🖂 Into-view Sum	(PTO 413)			
2) Notic 3) Inform	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) nation Disclosure Statement(s) (PTO-1449 or PTO/SB/08) r No(s)/Mail Date	4)				

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DETAILED ACTION

1. Claims 1-60 are pending in this office action.

Claim Rejections - 35 USC § 103

- 2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-60 are rejected under 35 U.S.C. 103(a) as being unpatentable over Goldstein et al. (Goldstein hereinafter) (U.S. PG Pub No. 2002/0198984) in view of Robert Giffords. (Giffords hereinafter) (U.S. PG Pub No. 2004/0102925).

With respect to claim 1, Goldstein teaches a data storage management system for managing a plurality of remotely located, independent data storage systems, comprising:

"a central monitoring system located at a geographical location different from a geographical location of each respective remotely located, independent data storage system, wherein the central monitoring system comprises a central data repository" as the monitoring system includes an agent component that monitors

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the performance of the transactional server as seen from one or more geographic locations and reports the performance data to a reports server and/or centralized database (**Goldstein** Abstract).

"a plurality of remote agent systems, wherein each remote agent system communicates with a respective one of the remotely located data storage systems, wherein each remote agent system collects data from a respective remotely located data storage system, converts the collected data to a standardized format, and stores the collected data in the central data repository" as the performance data generated by the client and server agents is aggregated in a centralized database that is remotely accessible through a web reports server (Goldstein Paragraph 0020). The reports server 36 may optionally be implemented by a "monitoring service provider" entity that stores and provides secure access to server status data for many different transactional servers and business entities (Goldstein Paragraph 0076). The agent captures the screen returned by the transactional server and compares this response against any associated verification points defined within the transaction. The screen displays are preferably stored as bitmap images, but may alternatively be stored in another format such as HTML documents and associated objects (Goldstein Paragraph 00148).

Goldstein teaches the elements of claim 1 as noted above but does not explicitly disclose, "converts the collected data to a standardized format."

However, Giffords teaches, "converts the collected data to a standardized format" as establishing a common representation format for the first performance metric data and the second performance metric data (Giffords Abstract).

Giffords figure 1 also teaches a data storage system 10, which includes a plurality of storage systems 12 and performance monitoring system 14. Monitoring system 14 includes a plurality of host agents 30 and a management station 32. Host agents 30 are coupled with respective storage systems 12.

It would have been obvious to one of ordinary skill in the art at the time the invention was made to combine the teaching of the cited references because **Giffords's** teachings would have allowed **Goldstein** to provide faster computations, common/standardized formats and remove unnecessary data comparison points.

With respect to claim 2, Goldstein teaches "the data storage management system of claim 1, wherein each remote agent system comprises pattern recognition logic that can identify data patterns that precede fault conditions at a respective remotely located data storage system" as the agent computers may be programmed to capture sequences of screen displays during transaction execution, and to transmit these screen displays to the reports server for viewing when a transaction fails. This feature allows the user to view the sequence of events, as "seen" by an agent, that led to the error condition (Goldstein Paragraph 0017).

Claim 28 is same as claim 2 and is rejected for the same reasons as applied hereinabove.

With respect to claim 3, Goldstein teaches "the data storage management system of claim 1, wherein storing the collected data in the central data repository" as the performance data generated by the client and server agents is aggregated in a centralized database that is remotely accessible through a web reports server (Goldstein Paragraph 0020). The reports server 36 may optionally be implemented by a "monitoring service provider" entity that stores and provides secure access to server status data for many different transactional servers and business entities (Goldstein Paragraph 0076).

Goldstein teaches the elements of claim 3 as noted above but does not explicitly teach, "consolidates the collected data."

However, Giffords discloses, "consolidates the collected data" as establishing a common representation format for the first performance metric data and the second performance metric data (Giffords Abstract). Examiner interprets combine/converting into single/standardized format as consolidation of the data.

It would have been obvious to one of ordinary skill in the art at the time the invention was made to combine the teaching of the cited references because **Giffords's** teachings would have allowed **Goldstein** to provide faster computations, common/standardized formats and remove unnecessary data comparison points.

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Claims 16, 29, 40, and 51 are same as claim 3 and are rejected for the same reasons as applied hereinabove.

With respect to claim 4, Goldstein teaches "the data storage management system of claim 1, wherein each remote agent system filters collected data prior to communicating the collected data to the central monitoring system to reduce an amount of data communicated to the central monitoring system" as by using this feature, the user can, for example, filter out from the reports the performance data corresponding to a particular transaction, location, organization, ISP, or combination thereof. In one embodiment (not shown), the user specifies the filter to be applied by completing a web form that includes a respective check box for each transaction and each attribute used in the monitoring session (Goldstein Paragraph 0127).

Claims 17, 30, 46, and 57 are same as claim 4 and are rejected for the same reasons as applied hereinabove.

With respect to claim 5, Goldstein teaches "the data storage management system of claim 1, wherein each remote agent system comprises action logic that directs the remote agent system to perform one or more corrective actions at a respective remotely located data storage system in response to identifying a data pattern known to precede a fault condition" as when certain types of server resources are determined by such analysis to be the source of a performance problem,

a corrective action is automatically performed according to a set of predefined rules. For instance, a rule may specify that when insufficient disk space available to a particular machine is determined to be the likely source of long transaction response times, additional storage resources are to be automatically allocated to that machine (**Goldstein** Paragraph 0261).

Claims 31, 47, and 58 are same as claim 5 and are rejected for the same reasons as applied hereinabove.

With respect to claim 6, Goldstein teaches "the data storage management system of claim 1, wherein each remote agent system collects data and hardware information from a respective remotely located data storage system" as a system is provided that automatically analyzes performance data collected by agents to locate performance degradations, and to identify lower level parameters (such as server resource parameters) that are correlated with such degradations (Goldstein Paragraph 0021). The agent computer(s) includes in a monitoring session, assign attributes to such computers (such as the location, organization, ISP and/or configuration of each computer) (Goldstein Paragraph 0013).

Claims 18, 32, 48, and 59 are same as claim 6 and are rejected for the same reasons as applied hereinabove.

With respect to claim 7, Goldstein teaches the data storage management system of claim 1, wherein each remote agent system comprises:

"one or more element information managers (EIMs), wherein each EIM is configured to communicate with a respective data source at a remotely located data storage network and convert data from the data source to the standardized format" as the agent captures the screen returned by the transactional server and compares this response against any associated verification points defined within the transaction. The screen displays are preferably stored as bitmap images, but may alternatively be stored in another format such as HTML documents and associated objects (Goldstein Paragraph 00148).

"one or more service information managers (SIMs), wherein each SIM is configured to communicate with EIMs associated with a common data application" and "one or more platform information manager (PIMs), wherein each PIM is configured to communicate with SIMs associated with a common data application platform" as the controller 34 also includes an automation interface 34C that provides methods for controlling the operation of the agents 32, including dispatching testcases and execution schedules to the agents (Goldstein Paragraph 0097).

"and an/activity director that is configured to communicate with each EIM, SIM and PIM and to instruct each EIM, SIM and PIM as to what information to collect and store" as (RCA) system is provided that automatically analyzes performance data collected by agents to locate performance degradations, and to

identify lower level parameters (such as server resource parameters) that are correlated with such degradations. In a preferred embodiment, the RCA system analyzes the performance data to detect performance or quality degradations in specific parameter measurements (e.g., a substantial increase in average transaction response times)

(Goldstein Paragraph 0021 & figure 1). In this reference performance data is being collected and stored in a database, which is communicating with the agents.

Goldstein teaches the elements of claim 7 as noted above but does not explicitly teaches "one or more element information managers (EIMs), wherein each EIM is configured to communicate with a respective data source at a remotely located data storage network and convert data from the data source to the standardized format," "one or more service information managers (SIMs), wherein each SIM is configured to communicate with EIMs associated with a common data application" and "one or more platform information manager (PIMs), wherein each PIM is configured to communicate with SIMs associated with a common data application platform."

However, Giffords teaches "one or more element information managers (EIMs), wherein each EIM is configured to communicate with a respective data source at a remotely located data storage network and convert data from the data source to the standardized format" as establishing a common representation format for the first performance metric data and the second performance metric data (Giffords Abstract).

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"one or more service information managers (SIMs), wherein each SIM is configured to communicate with EIMs associated with a common data application and one or more platform information manager (PIMs), wherein each PIM is configured to communicate with SIMs associated with a common data application platform" as host agents 30 are coupled with respective storage systems 12 and are configured to interface with managers 22 of the respective storage systems 12, for example, using API calls (Giffords Paragraph 0021).

It would have been obvious to one of ordinary skill in the art at the time the invention was made to combine the teaching of the cited references because **Giffords's** teachings would have allowed **Goldstein** to provide faster computations, common/standardized formats and remove unnecessary data comparison points.

Claims 19, 49, and 60 are same as claim 7 and are rejected for the same reasons as applied hereinabove.

With respect to claim 8, Goldstein does not explicitly teach, "the data storage management system of claim 1, wherein each remotely located data storage system comprises one or more data storage devices."

However, Giffords teaches "the data storage management system of claim

1, wherein each remotely located data storage system comprises one or more

data storage devices" as for example, storage systems 12 may be arranged as RAID

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storage systems, direct attached systems, network attached systems, and/or storage area network systems in exemplary embodiments (**Giffords** Paragraph 0018).

It would have been obvious to one of ordinary skill in the art at the time the invention was made to combine the teaching of the cited references because **Giffords's** teachings would have allowed **Goldstein** to provide faster computations, common/standardized formats and remove unnecessary data comparison points.

Claims 20 and 33 are same as claim 8 and are rejected for the same reasons as applied hereinabove.

With respect to claim 9, Goldstein does not explicitly teach "the data storage management system of claim 8, wherein the one or more data storage devices comprise a plurality of heterogeneous data storage devices."

However, Giffords discloses "the data storage management system of claim 8, wherein the one or more data storage devices comprise a plurality of heterogeneous data storage devices" as for example, storage systems 12 may be arranged as RAID storage systems, direct attached systems, network attached systems, and/or storage area network systems in exemplary embodiments (Giffords Paragraph 0018).

It would have been obvious to one of ordinary skill in the art at the time the invention was made to combine the teaching of the cited references because **Giffords's**

teachings would have allowed **Goldstein** to provide faster computations, common/standardized formats and remove unnecessary data comparison points.

Claims 21 and 34 are same as claim 9 and are rejected for the same reasons as applied hereinabove.

With respect to claim 10, Goldstein teaches "the data storage management system of claim 1, wherein the central monitoring system is configured to communicate corrective action information to each respective remote agent system and wherein each remote agent system is configured to implement the corrective action in response thereto" as when certain types of server resources are determined by such analysis to be the source of a performance problem, a corrective action is automatically performed according to a set of predefined rules. For instance, a rule may specify that when insufficient disk space available to a particular machine is determined to be the likely source of long transaction response times, additional storage resources are to be automatically allocated to that machine (Goldstein Paragraph 0261).

Claims 22, 35, 45, and 56 are same as claim 10 and are rejected for the same reasons as applied hereinabove.

With respect to claim 11, Goldstein teaches "the data storage management system of claim 1, wherein the central monitoring system is configured to communicate corrective action information to a third party for implementation" as when certain types of server resources are determined by such analysis to be the source of a performance problem, a corrective action is automatically performed according to a set of predefined rules. For instance, a rule may specify that when insufficient disk space available to a particular machine is determined to be the likely source of long transaction response times, additional storage resources are to be automatically allocated to that machine (Goldstein Paragraph 0261). Performance problems discovered through the testing process may be corrected by programmers or system administrators (Goldstein Paragraph 0006).

Claims 23, 36, 44, and 55 are same as claim 11 and are rejected for the same reasons as applied hereinabove.

With respect to claim 12, Goldstein teaches "the data storage management system of claim 1, wherein the central monitoring system is configured to analyze information from each remote agent system and identify patterns known to precede data storage problems at a respective remotely located data storage system" as the agent computers may be programmed to capture sequences of screen displays during transaction execution, and to transmit these screen displays to the reports server for viewing when a transaction fails. This feature allows the user to view

the sequence of events, as "seen" by an agent, that led to the error condition (**Goldstein** Paragraph 0017).

Claims 24, 37, 42-43, and 53-54 are same as claim 12 and are rejected for the same reasons as applied hereinabove.

With respect to claim 13, Goldstein teaches "the data storage management system of claim 1, further comprising a plurality of customer portals, each customer portal associated with a respective one of the remotely located data storage systems and with the central monitoring system, wherein each customer portal provides user access to information about a respective one of the remotely located data storage systems" as the RCA system 168, which is accessible to users through a browser 100 or other user device such as an Internet-enabled handheld device (not shown). RCA system 168 in this embodiment include a RCA Internet server 268, a RCA application server 270, and a database bank 272 accessible to the RCA system 168. In the illustrated embodiment, the RCA system 168 may be shared by many different users or customers of a hosted monitoring service, and may thus be used concurrently to analyze the performance of many different web sites or other systems. The RCA system 168 may alternatively be set up, for example, on a corporate network and used exclusively for analyzing the server system(s) of a particular organization (Goldstein Paragraph 0226).

Claim 25 is same as claim 13 and is rejected for the same reasons as applied hereinabove.

With respect to claim 14, Goldstein teaches "the data storage management system of claim 13, wherein each customer portal allows user control and configuration of a remotely located data storage system" as the RCA system 168, which is accessible to users through a browser 100 or other user device such as an Internet-enabled handheld device (not shown). RCA system 168 in this embodiment include a RCA Internet server 268, a RCA application server 270, and a database bank 272 accessible to the RCA system 168. In the illustrated embodiment, the RCA system 168 may be shared by many different users or customers of a hosted monitoring service, and may thus be used concurrently to analyze the performance of many different web sites or other systems (Goldstein Paragraph 0226).

Claims 26 and 38 are same as claim 14 and are rejected for the same reasons as applied hereinabove.

With respect to claim 15, Goldstein teaches a data storage management system for managing a plurality of remotely located, independent data storage systems, comprising:

"a central monitoring system located at a geographical location different from a geographical location of each respective remotely located, independent

data storage system, wherein the central monitoring system comprises a central data repository" as the monitoring system includes an agent component that monitors the performance of the transactional server as seen from one or more geographic locations and reports the performance data to a reports server and/or centralized database (Goldstein Abstract).

"and a plurality of remote agent systems, wherein each remote agent system communicates with a respective one of the remotely located data storage systems, wherein each remote agent system collects data from a respective remotely located data storage system, converts the collected data to a standardized format, and stores the collected data in the central data repository" as the performance data generated by the client and server agents is aggregated in a centralized database that is remotely accessible through a web reports server (Goldstein Paragraph 0020). The reports server 36 may optionally be implemented by a "monitoring service provider" entity that stores and provides secure access to server status data for many different transactional servers and business entities (Goldstein Paragraph 0076). The agent captures the screen returned by the transactional server and compares this response against any associated verification points defined within the transaction. The screen displays are preferably stored as bitmap images, but may alternatively be stored in another format such as HTML documents and associated objects (Goldstein Paragraph 00148). "wherein each remote agent system comprises pattern recognition logic that can identify data patterns that precede fault conditions at a respective remotely located data storage system" as the

agent computers may be programmed to capture sequences of screen displays during transaction execution, and to transmit these screen displays to the reports server for viewing when a transaction fails. This feature allows the user to view the sequence of events, as "seen" by an agent, that led to the error condition (Goldstein Paragraph 0017). "and wherein each remote agent system comprises action logic that directs the remote agent system to perform one or more corrective actions at a respective remotely located data storage system in response to identifying a data pattern known to precede a fault condition" as when certain types of server resources are determined by such analysis to be the source of a performance problem, a corrective action is automatically performed according to a set of predefined rules. For instance, a rule may specify that when insufficient disk space available to a particular machine is determined to be the likely source of long transaction response times, additional storage resources are to be automatically allocated to that machine (Goldstein Paragraph 0261).

Goldstein teaches the elements of claim 15 as noted above but does not explicitly disclose, "converts the collected data to a standardized format."

However, Giffords teaches, "converts the collected data to a standardized format" as establishing a common representation format for the first performance metric data and the second performance metric data (Giffords Abstract).

Giffords's figure 1 also teaches a data storage system 10, which includes a plurality of storage systems 12 and performance monitoring system 14. Monitoring

system 14 includes a plurality of host agents 30 and a management station 32. Host agents 30 are coupled with respective storage systems 12.

It would have been obvious to one of ordinary skill in the art at the time the invention was made to combine the teaching of the cited references because **Giffords's** teachings would have allowed **Goldstein** to provide faster computations, common/standardized formats and remove unnecessary data comparison points.

Claims 39, 41, 50, and 52 are same as claim 15 and are rejected for the same reasons as applied hereinabove.

With respect to claim 27, Goldstein teaches a data storage management system for managing a plurality of remotely located, independent data storage systems, comprising:

"a central monitoring system located at a geographical location different from a geographical location of each respective remotely located, independent data storage system, wherein the central monitoring system comprises a central data repository" as the monitoring system includes an agent component that monitors the performance of the transactional server as seen from one or more geographic locations and reports the performance data to a reports server and/or centralized database (Goldstein Abstract).

"a plurality of remote agent systems, wherein each remote agent system communicates with a respective one of the remotely located data storage

systems, wherein each remote agent system collects data from a respective remotely located data storage system, converts the collected data to a standardized format, and stores the collected data in the central data repository, wherein each remote agent system comprises" as the performance data generated by the client and server agents is aggregated in a centralized database that is remotely accessible through a web reports server (Goldstein Paragraph 0020). The reports server 36 may optionally be implemented by a "monitoring service provider" entity that stores and provides secure access to server status data for many different transactional servers and business entities (Goldstein Paragraph 0076). The agent captures the screen returned by the transactional server and compares this response against any associated verification points defined within the transaction. The screen displays are preferably stored as bitmap images, but may alternatively be stored in another format such as HTML documents and associated objects (Goldstein Paragraph 00148).

"one or more element information managers (EIMs), wherein each EIM is configured to communicate with a respective data source at a remotely located data storage network and convert data from the data source to the standardized format" as the agent captures the screen returned by the transactional server and compares this response against any associated verification points defined within the transaction. The screen displays are preferably stored as bitmap images, but may alternatively be stored in another format such as HTML documents and associated objects (Goldstein Paragraph 00148).

"one or more service information managers (SIMs), wherein each SIM is configured to communicate with EIMs associated with a common data application; one or more platform information manager (PIMs), wherein each PIM is configured to communicate with SIMs associated with a common data application platform" as the controller 34 also includes an automation interface 34C that provides methods for controlling the operation of the agents 32, including dispatching testcases and execution schedules to the agents (Goldstein Paragraph 0097).

"and an activity director that is configured to communicate with each EIM, SIM and PIM and to instruct each EIM, SIM and PIM as to what information to collect and store" as (RCA) system is provided that automatically analyzes performance data collected by agents to locate performance degradations, and to identify lower level parameters (such as server resource parameters) that are correlated with such degradations. In a preferred embodiment, the RCA system analyzes the performance data to detect performance or quality degradations in specific parameter measurements (e.g., a substantial increase in average transaction response times) (Goldstein Paragraph 0021 & figure 1). In this reference performance data is being collected and stored in a database, which is communicating with the agents.

"and a plurality of customer portals, each customer portal associated with a respective one of the remotely located data storage systems and with the central monitoring system, wherein each customer portal provides user access to information about a respective one of the remotely located data storage systems"

as the RCA system 168, which is accessible to users through a browser 100 or other user device such as an Internet-enabled handheld device (not shown). RCA system 168 in this embodiment include a RCA Internet server 268, a RCA application server 270, and a database bank 272 accessible to the RCA system 168. In the illustrated embodiment, the RCA system 168 may be shared by many different users or customers of a hosted monitoring service, and may thus be used concurrently to analyze the performance of many different web sites or other systems. The RCA system 168 may alternatively be set up, for example, on a corporate network and used exclusively for analyzing the server system(s) of a particular organization (**Goldstein** Paragraph 0226).

Goldstein teaches the elements of claim 27 as noted above but does not explicitly disclose "converts the collected data to a standardized format," "one or more element information managers (EIMs), wherein each EIM is configured to communicate with a respective data source at a remotely located data storage network and convert data from the data source to the standardized format," "one or more service information managers (SIMs), wherein each SIM is configured to communicate with EIMs associated with a common data application" and "one or more platform information manager (PIMs), wherein each PIM is configured to communicate with SIMs associated with a common data application platform."

However, Giffords teaches, "converts the collected data to a standardized format and one or more element information managers (EIMs), wherein each EIM is configured to communicate with a respective data source at a remotely located data storage network and convert data from the data source to the standardized

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format" as establishing a common representation format for the first performance metric data and the second performance metric data (Giffords Abstract).

"one or more service information managers (SIMs), wherein each SIM is configured to communicate with EIMs associated with a common data application and one or more platform information manager (PIMs), wherein each PIM is configured to communicate with SIMs associated with a common data application platform" as host agents 30 are coupled with respective storage systems 12 and are configured to interface with managers 22 of the respective storage systems 12, for example, using API calls (Giffords Paragraph 0021).

Giffords's figure 1 also teaches a data storage system 10, which includes a plurality of storage systems 12 and performance monitoring system 14. Monitoring system 14 includes a plurality of host agents 30 and a management station 32. Host agents 30 are coupled with respective storage systems 12.

It would have been obvious to one of ordinary skill in the art at the time the invention was made to combine the teaching of the cited references because **Giffords's** teachings would have allowed **Goldstein** to provide faster computations, common/standardized formats and remove unnecessary data comparison points.

Conclusion

3. The prior art made of record and not replied upon is considered pertinent to applicant's disclosure is listed on 892 form.

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Contact Information

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Usmaan Saeed whose telephone number is (571)272-4046. The examiner can normally be reached on M-F 8-5.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Hosain Alam can be reached on (571)272-3978. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Usmaan Saeed Patent Examiner Art Unit: 2166

Leslie Wong

Primary Examiner

US

August 18, 2006